Name:

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Geometry, Period

Due Date: Tue, 31 Mar 2015

**Geometry**

**Homework**



***For the questions below, draw the shapes & label the relevant information. (Ex: for #1, mark congruent sides.)***

|  |  |  |
| --- | --- | --- |
| 1. Which of the following have all sides congruent?  *Drawing 🡪*   1. Square   *Drawing 🡪*   1. Rectangle   *Drawing 🡪*   1. Rhombus 2. I 3. I and II only 4. I and III only 5. None of the above 6. All of the above | 2. Which of the following parallelograms have congruent diagonals?   1. Square 🡪 2. Rectangle 🡪 3. Rhombus 🡪 4. I only 5. I and II only 6. I and III only 7. None of the above 8. All of the above | |
| 3. Tell if the statement is always true, sometimes true, or never true. *(Don’t forget to sketch the shapes!)* | 4. Name & sketch ALL quadrilaterals – parallelogram, rectangle, rhombus & square – for which the statement is true.   1. The diagonals bisect each other. 2. Opposite sides are congruent. 3. It is equiangular and equilateral. 4. The diagonals bisect opposite angles. 5. The diagonals are perpendicular. 6. It is equiangular. | |
| http://docs.google.com/File?id=dcjnm59j_16gf68k5fk_b5. | 6. Which statement is true? *(Sketch an example or counterexample)*  A. All parallelograms are rhombuses  B. All quadrilaterals are parallelograms  C. All quadrilaterals are squares  D. All rectangles are parallelograms | |
| 7. Which of the following statements is NOT true about parallelograms?   1. consecutive angles are congruent 2. opposite sides are congruent 3. opposite angles are congruent 4. the diagonals bisect each other | 8. | |
| 9. Judging by appearance, classify the figure in as many ways as possible.     |  |  | | --- | --- | | **A** | rectangle, square, quadrilateral, parallelogram, rhombus | | **B** | rectangle, square, parallelogram | | **C** | rhombus, trapezoid, quadrilateral, square | | **D** | square, rectangle, quadrilateral | | | 10. WXYZ is a parallelogram. Name an angle congruent to     |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **A** |  | **B** |  | **C** |  | **D** |  | |
| 11. Which of the following quadrilaterals have diagonals that are perpendicular? *(sketch diagonals)*   1. Parallelogram 2. Rhombus 3. Square 4. Kite 5. I 6. II and III only 7. II, III, and IV 8. II and IV only 9. All of the above | | 12. Which of the following quadrilateral is a parallelogram?   1. Rhombus 2. Square 3. Rectangle 4. Trapezoid 5. I 6. II and III 7. I and III 8. I, II, and III 9. All of above |
| 13) Which statement is true?  A. All parallelograms are squares.  B. All squares are parallelograms  C. All quadrilaterals are parallelograms  D.All kites are trapezoids | | 14) State the most specific name the figure. |
| 15) State the most specific name the figure. | | 16) State the most specific name the figure. |

***Do you have 100% on the area & perimeter formulas quiz?\_\_\_\_\_\_\_\_ If not, which do you need to practice?****(Circle all that apply: Parallelogram, rectangle, rhombus, square, isosceles trapezoid, and kite).*

***What’s your plan to study for them?***